Quoc-Viet Pham

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Personal

- Born on April 05, 1990 in Vietnam.

- Vietnamese Citizen.

Education

- HSDG Donggia High School, Vietnam, 2005- 2008.

- Bachkhoa Information Technology Academy, Feb. to Nov., 2011.

- B.Eng. Electronics and Telecommunications, Hanoi University of Science and Technology, Vietnam, 2008-2013 (CPGA: 3.05/4.0, 8.1/10, good degree).
  Thesis: Building an observational data processing and archiving center for automatic water level gathering and alarming system (in Vietnamese).

- M.S. Computer Sciences, Computer Network Lab, Inje University, South Korea, 2013-2015 (CPGA: 4.50/4.50).
  Thesis: Multi-Timescale Cross-Layer Design in Wireless Multihop Networks.

- Ph.D. Computer Sciences, Computer Network Lab, Inje University, South Korea, 2015-2018.
  Research Topics: Resource Allocation and Energy Efficiency in Communication Networks.

Fields of Research Interest

- Cross-Layer Designs in Wireless Multihop Networks

- Resource Allocation in Wireless Networks

- Energy Efficiency in Coordinated Multicell Networks

Publications

Journal Articles

1. Q. Pham, W. Hwang, *Network Utility Maximization in Multipath Lossy Wireless Networks*, International Journal of Communication Systems, **Accepted**, Oct. 2015.

2. Q. Pham, H. To, W. Hwang, *A Multi-Timescale Cross-Layer Approach for Wireless Ad Hoc Networks*, Computer Networks, Vol. 18, pp. 471-482, Sep. 2015.

3. Q. Pham, H. Kim, W. Hwang, *Globally Optimal Solutions for Cross-Layer Design in Fast-Fading Lossy Delay-Constrained MANETs*, Journal of Korea Multimedia Society, Vol. 18, No. 2, pp. 168-177, Feb. 2015.

4. Q. Pham, W. Hwang, *Network Utility Maximization based Congestion Control over Wireless Networks: A Survey and Potential Directives*, IEEE Communications Surveys & Tutorials, **Reject with option to resubmit**, Aug. 2015.

5. Q. Pham, W. Hwang, *Resource Allocation for Heterogeneous Traffic in Complex Communication Networks*, IEEE Transactions on Circuits and Systems II - Express Brief, **Under review**, Sep. 2015.

6. Q. Pham, W. Hwang, *Energy-Efficient Resource Allocation in Uplink Heterogeneous Networks*, IEEE Transactions on Communications, **Under review**, Nov. 2015.

Proceedings

1. Q. V. Pham, A. Radwan, W. J. Hwang, *Optimal Resource Allocation for Energy Efficiency in Uplink Heterogeneous Networks*, Proceedings of The 2015 Fall Conference of KMMS (Korea MultimediaSociety), vol. 18, no. 2, Nov. 2015.

2. Q. V. Pham, A. Radwan, W. J. Hwang, *Hop-by-Hop Rate Control in Multipath Lossy Wireless Networks*, Proceedings of The 2015 Spring Conference of KMMS (Korea MultimediaSociety), vol. 18, no. 1, May. 2015.

3. Q. Pham, W. Hwang, *A Novel Cross-Layer Design for Fast-Fading Multihop Wireless Networks*, Proceedings of The 2014 Fall Conference of KMMS (Korea MultimediaSociety), vol. 17, no. 2, Nov. 2014. (**Best paper award**)

4. Q. Pham, W. Hwang, *A Novel Handover Algorithm in LTE Small Cell Networks*, Proceedings of The 2014 Spring Conference of KMMS (Korea MultimediaSociety), vol. 17, no. 1, May. 2014.

5. Q. Pham, W. Hwang, *Joint Inter-cell Interference Management and Mobility-aware Prediction in LTE Femtocell Networks*, Proceedings of The 2013 Fall Conference of KMMS (Korea MultimediaSociety), vol. 16, no. 2, Nov. 2013.

Grants, Fellowships, & Awards

- BKACAD certificate of CCNA course, 2012.

- University scholarship for excellent students, HUST.

- Prize for scientific research students, HUST, 2013.

- Best paper award, KMMS 2014.

Professional Skills

- **Programming skills**: C, C++, Matlab.

- **Computer skills**: Microsoft offices, Adobe photoshop.

- **Background knowledge**: Embedded systems, Embedded programming, Information theories, Wireless communications, Network optimization, Game theory.

Languages

- **Vietnamese**: Mother-tongue.

- **English**: Intermediate - conversationally fluent.

- **Korean**: Basic - basic conversation and phrases (Sogang 1A and 1B).